

### **REMARKS**

This application has been carefully reviewed in light of the Office Action dated April 8, 2008. Claims 1, 3-5, and 11-26 remain in this application. Claims 1, 14, and 17 are the independent Claims. Claims 1, 11-14, 17, and 21-26 have been amended. Claims 2, and 6-10 have been canceled without prejudice. It is believed that no new matter is involved in the amendments or arguments presented herein.

Reconsideration and entrance of the amendment in the application are respectfully requested.

### **Allowable Subject Matter**

Claims 2 and 14-16 were objected to for being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant thanks the Examiner and formally recognizes the allowable subject matter of Claims 2 and 14-16.

### **Double Patenting Rejections**

Claims 17-22 and 24-26 were rejected on the ground of nonstatutory obviousness-type double patenting for unpatentable over Claims 1, 5 and 7-16 of copending U.S. application No. 10/526,427. the filing of a terminal disclaimer will overcome this rejection.

Reconsideration and withdrawal of the above double-patenting rejections are respectfully requested.

### **Claim Objection**

Claims 22 and 24 were objected to for certain informalities.

It is believed that the substitution addresses the concern of above objection. Reconsideration and withdrawal of the above objection are respectfully requested.

#### **Non-Art Based Rejections**

Claims 11, 20, 22-26 were rejected under 35 U.S.C. § 112, second paragraph, for indefiniteness. In response, Applicant has amended those claims to address the concern expressed in the Office Action.

Reconsideration and withdrawal of the above § 112 rejections are respectfully requested.

#### **Art-Based Rejections**

Claims 1, 3-5, 12, 13, 17, 21 and 22 were rejected under 35 U.S.C. § 103(a) over U.S. Patent Nos. 2,924,573 (Sasaki), in view of U.S. Patent No. 5,698,145 (Narutani), and 5,846,448 (Yasuhara), and 6,576,169 (Kobayashi) and 6,752,932 (Ishida); Claims 1, 3, 4, 11-13, 17, 20-24 and 26 were rejected under § 103(a) over Japanese Application No. JP 2000/159,523, in view of Narutani, Yasuhara, Kobayashi and Ishida.

Applicant respectfully traverses the rejections and submits that the claims herein are patentable in light of the clarifying amendments above and the arguments below.

#### **The Claims are Patentable Over the Cited References**

The present application is generally directed to ferrite materials.

As defined by amended independent Claim 17, a ferrite material is characterized in that the core loss thereof is  $1400 \text{ kW/m}^3$  or less (measurement conditions: 100 kHz, 200 mT). The ferrite material is made of a sintered body comprising as main constituents  $\text{Fe}_2\text{O}_3$ : 62 to 68 mol%,  $\text{ZnO}$ : 12 to 20 mol%, and  $\text{MnO}$ . The saturation magnetic flux density thereof is at  $100^\circ\text{C}$  is 470 mT or more (measurement magnetic

field: 1194 A/m). The volume resistivity thereof at room temperature is 0.13  $\Omega$ -m or more.

The applied references fail to disclose or suggest the above features of the claims of the present invention. In particular, the applied references fails to disclose or suggest "the saturation magnetic flux density thereof at 100°C is 470 mT or more (measurement magnetic field: 1194 A/m)," as required by amended independent Claim 17 of the present invention.

Moreover, the applied references don't disclose or suggest "the volume resistivity thereof at room temperature is 0.13  $\Omega$ -m or more," as required by amended independent Claim 17 of the present invention.

In particular, the applied JP 2000-159523 reference does not disclose the ferrite material showing the properties such that saturation magnetic flux density at 100°C is 470 mT or more (measurement magnetic field: 1194 A/m) and core loss is 1400 kW/m<sup>3</sup> or less (measurement conditions: 100 kHz, 200 mT). Moreover, JP 2000-159523 does not disclose, teach or even suggest the volume resistivity of the ferrite material at room temperature. Additionally, none of the examples of JP 2000-159523 fall within the composition range required by amended independent Claim 17 of the present invention.

USP 2,924,573 (Yozo) similarly fails to disclose the above claimed features of amended independent Claim 17 of the present invention. The composition disclosed in Yozo is 54 mol% Fe<sub>2</sub>O<sub>3</sub>, 35 mol% MnO, and 11 mol% ZnO, which clearly does not fall within the composition range defined by Claim 17. Moreover, Yozo fails to disclose, teach or even suggest that saturation magnetic flux density at 100°C is improved by controlling the powder properties of ferrite material having a composition such that Fe<sub>2</sub>O<sub>3</sub>: 62 to 68 mol%, ZnO: 12 to 20 mol%, and MnO substantially constituting the balance. In the specific composition of Yozo (i.e., 54 mol% Fe<sub>2</sub>O<sub>3</sub>, 35 mol% MnO, and 11 mol% ZnO), the amount of Fe<sub>2</sub>O<sub>3</sub> is small and is unlikely to show the presently

claimed properties such that saturation magnetic flux density at 100°C is 470 mT or more (measurement magnetic field: 1194 A/m).

The ancillary USP5,698,145, USP5,846,448, USP6,576,169, and USP6,752,932 references fail to remedy the above-discussed deficiencies of Yozo and JP 2000-159523.

Accordingly, the applied references fail to disclose, teach or suggest the above features of amended independent Claim 17 of the present invention.

Since the applied reference fails to disclose, teach or suggest the above features recited in amended independent Claim 17, these references cannot be said to anticipate nor render obvious the invention which is the subject matter of that claim.

Accordingly, amended independent Claim 17 is are believed to be in condition for allowance and such allowance is respectfully requested.

The remaining claims depend either directly or indirectly from amended independent Claim 17 and recite additional features of the invention which are neither disclosed nor fairly suggested by the applied references and are therefore also believed to be in condition for allowance and such allowance is respectfully requested.

### **Conclusion**

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Reexamination and reconsideration of the application, as amended, are requested.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at the Los Angeles, California telephone number (310) 785-4721 to discuss the steps necessary for placing the application in condition for allowance.

Appl. No. 10/529,333  
Amdt. Dated July 18, 2008  
Reply to Office Action of April 8, 2008

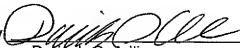
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If there are any fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-1314.

Respectfully submitted,  
HOGAN & HARTSON L.L.P.

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By



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